

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-10 (Canceled).

11. (Currently Amended): A light transfer system comprising:

a plurality of slave stations each ~~of which is equipped with the~~ comprising a light transmitter including a laser diode configured to output according to claim 1 which outputs an optical signal corresponding to an information signal, each of said plurality of slave stations including a wavelength controller configured to control a wavelength of the optical signal output from the laser diode of said light transmitter by adjusting an amount of heat radiated from an exothermic-effect-only heat source of said light transmitter; and

a master station which receives configured to receive an optical multiplex signal obtained by optically multiplexing the optical signals from said plurality of slave stations, said master station comprising a detector configured to detect optical beat noise from said optical multiplex signal and output a wavelength control signal to control the wavelength of the optical signal output from the laser diode of at least one of said plurality of slave stations based on an output result of said detector;

wherein said wavelength controller of said at least one of said plurality of slave stations configured to control the wavelength of the optical signal output from said laser diode in correspondence with said wavelength control signal so as to suppress said optical beat noise by tuning said exothermic-effect-only heat source on and off.

12. (Canceled).

13. (Currently Amended) The system according to Claim [[12]] 11, wherein:

said wavelength controller ~~is equipped with~~ comprises a temperature measuring device ~~which measures~~ configured to measure a temperature of said laser diode to then output a temperature information signal;

said plurality of slave stations ~~transmits~~ are configured to transmit to said master station said optical signal that also corresponds to said temperature information signal;

said master station ~~is equipped with~~ comprises a temperature information receiver ~~which receives~~ configured to receive said temperature information signal; and

said master station ~~outputs~~ is configured to output to at least one of said plurality of slave stations said wavelength control signal to control the wavelength of said laser diode of said one of said plurality of slave stations, based on output results of said detector and said temperature information receiver.

14. (Currently Amended) The system according to Claim 11, wherein each of said plurality of slave stations ~~is each equipped with~~ comprises an antenna, through which said information signal is received as a radio signal.

15. (Currently Amended) The system according to Claim 11, wherein:

each of said plurality of slave stations ~~is each equipped with~~ comprises a frequency converter configured to convert a frequency of said information signal into a frequency band which is different from those of others of said plurality of slave stations, so that the optical signal comprising the respective frequency bands of each slave stations is transferred to said master station in optical sub-carrier multiplexing access. ; and

~~said information signal has a frequency thereof converted by said frequency converter into a frequency band which is different with each of said plurality of slave stations, so that~~

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~~the optical signal corresponding to a signal having the thus converted frequency is transferred to said master station in optical sub-carrier multiplexing access.~~